7375

EG&G ROCKY FLATS

January 31, 1990   90-RF-0457

Robert E. Nelson, Jr.
Manager
DOE, RFO

MONTHLY UPDATE ON STATUS OF PONDCRETE OPERATIONS

This information is for the attention of Mark Van der Puy.

Attached is a status report for pondcrete operations from December 11,
1989 through January 21, 1990. Upon your approval, please forward
this report to the Colorado Department of Health. Copies are also to
be provided to EPA and the Rocky Flats Environmental Monitoring
Council.

If there are any questions concerning the report, please contact Vann
Bynum at 966-7100 or Steve DeWitt at 966-4433.

K. M. Kersh
Associate General Manager
Environmental Restoration & Waste Management

KGP:gks

Orig. and 3 cc - R. E. Nelson, Jr.

Enclosure
As Stated

STATUS REPORT

FOR PONDCRETE OPERATIONS

(DECEMBER 11, 1989 THROUGH JANUARY 21, 1990)

- BUILDING 788 (PROCESSING AREA)

    - One hundred sixty-eight (168) acceptable blocks of pondcrete were repackaged into eighty-four (84) plywood boxes for shipment to the Nevada Test Site (NTS)

- STORAGE PAD 750

    - Ongoing inspection of the outdoor storage pads found two blocks of pondcrete which leaked approximately five pounds of material, and one block of saltcrete which leaked less than one pound. The spills were contained and cleaned up immediately.

- STORAGE PAD 904

    - Inspection revealed one block each of pondcrete and saltcrete which each leaked approximately four pounds of material. The spills were contained and cleaned up immediately.

    - Approximately 20,000 gallons of precipitation runoff were collected by tanker truck and transported to Building 374 for evaporation.

- OTHER

    - One tent shelter has been erected on the 750 Pad, with equipment installation now in progress.

904 AND 750 PONDCRETE STORAGE AREAS
RESULTS FROM ANALYSIS OF GRAB SAMPLES

Analytical results from analysis of grab samples collected at the 750
and 904 pondcrete storage areas are summarized below. This report
includes all data collected since 09/21/89. The plant guide for
nitrate discharges is 10 mg/l; for gross alpha is 40 pCi/l; and for
gross beta is 50 pCi/l. Also included for 750 Pad Puddle and 904 Pad
Puddle are Cyanide and Cadmium results.

TABLE 1
750 PAD CULVERT

SAMPLE DATE	NITRATE mg/l	GROSS ALPHA pCi/l	GROSS BETA pCi/l
11/15/89	1.35	11 ± 14	10 ± 18
11/22/89	1.04	7 ± 9	6 ± 17
11/29/89	2.25	10 ± 13	17 ± 14
12/06/89	1.03	6 ± 10	12 ± 19

TABLE 2

SAMPLE DATE	NITRATE mg/l	GROSS ALPHA pCi/l	GROSS BETA pCi/l	CYANIDE mg/l	CADMIUM ug/l
09/21/89*	4.92	1 ± 7	14 ± 18	<0.0025	5.6
10/16/89	4.74	2 ± 9	11 ± 18	0.012	4.6
10/16/89	5.28	5 ± 11	14 ± 17	0.018	3.8
11/01/89	4.60	4 ± 9	18 ± 20	<2.5	2.2
11/29/89**	4.75	6 ± 9	20 ± 13	<0.003	4.0
12/07/89**	7.50	7 ± 11	21 ± 19	<0.003	***

TABLE 3

SAMPLE DATE	NITRATE mg/l	GROSS ALPHA pCi/l	GROSS BETA pCi/l	CYANIDE mg/l	CADMIUM ug/l
09/21/89*	25.1	14 ± 13	55 ± 22	<0.0025	9.2
10/16/89	5.80	10 ± 11	23 ± 19	<0.005	4.6
10/17/89	7.73	0 ± 9	27 ± 19	0.029	9.6
11/01/89	7.90	7 ± 10	9 ± 17	<2.5	6.7
11/29/89**	13.6	5 ± 9	26 ± 13	<0.004	10.2
12/07/89**	10.4	9 ± 10	25 ± 19	<0.003	***

   * Previously reported but without cyanide and cadmium results
  ** Verbal data
*** Data to be reported in next months letter

These data were gathered as part of the routine environmental monitor-
ing conducted by the Environmental Management group to screen runoff
waters from the pads. Care must be used in any interpretation of
these data, the data are derived from grab samples taken in a dynamic
system.